

CMG

t r a n s m i s s i o n



SMR[®] speed reducers

Helical shaft mounted units



“Solutions, not just products.”

Specialists in Electric Motors, Geared Motors & AC Drives

At CMG we offer customised packages to the most demanding industrial markets. Our success is built on a strong commitment to our customers’ needs and a willingness to find the best solution possible. We have been in business since 1948 so you can be confident our expertise and experience is second to none.

With over 500 staff around the globe, our branches extend across Australia, New Zealand, Asia Pacific, South Africa, Europe and the Middle East.

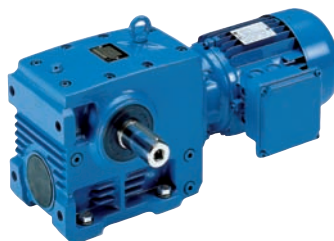
We have the capability to value-add our products through partnerships with leading international companies whose technical skills are equal to ours, including Gear Motors from NORD and AC Drives from VACON. In return we offer these companies superior technical support that complements their own R&D capabilities.

Our manufacturing facility in Melbourne, Australia, demonstrates our commitment to efficient automated manufacturing processes. This facility includes a NATA accredited laboratory which offers complete design and testing services.

“We specialise in an extensive range of Electric Motors, Geared Motors and AC Drives. Offering a “complete package” ensures our customers get the most efficient, cost effective solution possible.”



➤ Electric Motors



➤ Geared Motors



➤ AC Drives

CMG-SMR[®] series, helical shaft mounted reducers 0.29 to 134 kW, up to 7449 Nm

This is the short form catalogue for the range of CMG-SMR helical shaft mounted reducers. For further detailed information please refer to the nearest CMG office. This proven product is a rugged and reliably finished cast iron gearbox suitable for extra heavy duty applications.

CMG-SMR[®] gearbox

CMG-SMR gearboxes in this catalogue are hollow shaft. Gearcases are precision machined and dowelled for accurate in-line assembly.

After assembly all CMG-SMR helical shaft mounted reducers are test run and painted with a final coat of high quality blue enamel (RAL 5010).

The gears are made from forgings. The teeth are shaved, hardened and honed, and on selected sizes, precision ground.

CMG-SMR reducers are provided without oil, which must be added at the time of installation according to the orientation of the box. Bearings and gears need to operate in an oil bath. Oil needs to be filled to the level plug (see mounting positions page 13).

The bearings are adequately selected and proportioned assuring maximum life. Bearings used are of types commonly available for easy replacement.

The tolerances between shaft and bores as well as keys and keyways are selected to ensure proper fit. Output hollow shafts are available in parallel keyed bore or taper lock bush types.

This catalogue details the standard shaft mounted range. Dimensions of flange mounts and motor mounts are available on request.

Optional extras

CMG carries a range of taper lock bushes for easy connection, torque arms for anchoring the SMR unit, and backstops for rollback applications. Refer to page 12 for details.

Service factors

Where the required service factor is not known it can be calculated using the following table:

Hours per day	Uniform load	Moderate shock	Heavy shock
3 to 10	1.0	1.2	1.3
10 to 16	1.3	1.4	1.6
16 to 24	1.6	1.8	2.0

Gearbox selection

The following steps are a guide to selecting the best reducer for a given application:

1. If the service factor is unknown, from the table (this page) select the service factor that suits your application.
2. Multiply the service factor by the absorbed or demand kW. Where absorbed or demand kW is unknown, use the installed motor kW.
3. From the Power ratings tables (page 4), find the nominal output speed required. This will determine the choice of single stage (5:1) or two stage reduction (13:1 & 20:1). In the selected row match the next largest kW rating above the figure calculated in step 2. Scan to the top of the Power ratings table from this entry to obtain the gearbox size required.
4. Complete the selection by determining the belt and pulley combination needed (Belt & pulley selection process, page 5) by using the nominal output speed required and the gearbox size (step 3).

Product code specification

When placing an order the product code should be specified. The product code of the shaft mounted reducer is composed in accordance with the following example:

F	E	N	D	0	1	3	0	0	0	A	F
1-3			4	5-7			8-10			11	12

Positions 1 to 3

FEN = CMG-SMR[®] Helical Shaft Mounted series

Position 4

Gearbox size

B, C, D, E, F, G, H, or J

Positions 5 to 7

Gearbox ratio

005 = 5/1

013 = 13/1

020 = 20/1

Positions 8 to 10

Gearbox input

000 = reducer

Position 11

Output shaft type

A = Standard metric bore

T = Taper lock metric bore

Position 12

Mounting

Blank = Shaft mounted

F = Flange mounted

Power ratings [kW]

Single stage 5:1 ratio

Output [r/min]	Size							
	B	C	D	E	F	G	H	J
100	2.68	4.20	6.62	10.3	15.1	25.2	36.2	62.2
110	2.87	4.62	7.08	11.0	16.1	27.1	38.9	67.2
120	3.13	5.04	7.46	11.8	17.0	29.9	41.4	72.5
130	3.36	5.31	7.77	12.3	17.9	31.5	43.4	76.7
140	3.56	5.54	8.11	12.7	18.6	32.6	45.2	79.2
150	3.62	5.78	8.30	13.1	19.2	33.6	47.3	81.9
160	3.73	5.88	8.51	13.6	20.0	34.7	48.3	85.1
170	3.83	5.90	8.72	13.8	20.4	35.1	49.9	88.2
180	3.94	6.09	8.93	14.2	21.0	35.7	51.5	90.3
190	4.04	6.30	9.14	14.5	21.5	36.8	52.5	93.5
200	4.20	6.49	9.45	14.9	22.1	37.8	53.6	96.6
210	4.31	6.53	9.66	15.2	22.5	38.5	54.6	98.7
220	4.41	6.72	9.87	15.8	23.1	39.3	56.2	102
230	4.53	6.87	10.0	16.1	23.6	40.0	57.3	104
240	4.66	7.04	10.3	16.5	24.3	41.1	58.8	107
250	4.78	7.14	10.7	16.8	25.0	42.1	60.4	109
260	4.89	7.35	10.9	17.0	25.4	43.1	61.3	111
270	5.04	7.46	11.1	17.9	26.3	44.1	63.0	113
280	5.20	7.56	11.6	18.4	26.8	45.2	64.1	116
290	5.36	7.77	11.8	18.9	27.4	46.2	65.1	117
300	5.46	7.98	12.1	19.4	27.8	47.4	66.2	119
310	5.62	8.17	12.3	20.0	28.6	48.6	67.7	123
320	5.78	8.30	12.6	20.3	29.6	49.4	69.4	124
330	5.88	8.51	13.0	20.9	30.4	50.9	70.9	125
340	6.09	8.72	13.4	21.1	31.1	52.3	71.6	126
350	6.30	8.82	13.8	21.8	31.7	53.3	73.5	126
360	6.41	9.03	14.2	22.3	32.6	54.6	74.6	128
370	6.62	9.24	14.4	22.8	33.6	55.7	75.6	129
380	6.72	9.45	14.7	23.1	34.5	56.7	77.7	130
390	6.93	9.56	15.2	23.5	35.1	58.8	79.8	131
400	7.14	9.66	15.7	24.3	35.9	59.9	81.9	134

2 stage 13:1 & 20:1 ratio

Output [r/min]	Size							
	B	C	D	E	F	G	H	J
10	0.29	0.49	0.82	1.25	1.97	3.11	4.90	7.80
12	0.36	0.58	0.96	1.48	2.45	3.71	5.90	9.20
14	0.42	0.67	1.11	1.73	2.71	4.30	6.80	10.7
16	0.47	0.77	1.27	1.97	3.09	4.89	7.70	12.1
18	0.53	0.86	1.41	2.20	3.44	5.48	8.70	13.6
20	0.59	0.96	1.58	2.43	3.82	6.08	9.50	15.1
22	0.63	1.04	1.73	2.67	4.18	6.63	10.4	16.4
24	0.69	1.13	1.86	2.89	4.55	7.22	11.3	17.9
26	0.75	1.22	2.02	3.13	4.91	7.79	12.1	19.3
28	0.81	1.32	2.18	3.36	5.27	8.35	13.1	20.6
30	0.86	1.41	2.32	3.58	5.63	8.92	13.9	22.5
32	0.92	1.50	2.47	3.81	5.98	9.49	14.8	23.6
34	0.98	1.60	2.63	4.04	6.34	10.0	15.7	25.1
38	1.10	1.79	2.91	4.48	7.05	11.1	17.4	27.6
40	1.16	1.87	3.07	4.71	7.41	11.9	18.2	29.0
42	1.20	1.96	3.19	4.92	7.75	12.4	19.3	30.1
46	1.30	2.13	3.48	5.37	8.28	13.7	21.1	32.6
50	1.42	2.30	3.78	5.81	9.07	14.6	22.8	35.0
52	1.47	2.37	4.00	6.03	9.14	15.2	23.4	35.6
54	1.52	2.47	4.14	6.23	9.42	15.9	24.4	36.3
58	1.64	2.61	4.43	6.66	10.0	16.8	25.8	38.0
62	1.76	2.77	4.71	7.23	10.6	18.0	27.5	40.2
66	1.86	2.94	5.01	7.68	11.2	19.0	29.7	42.5
70	1.96	3.07	5.13	8.11	11.8	20.2	30.6	44.7
74	2.06	3.18	5.42	8.54	12.4	21.1	32.0	47.0
78	2.15	3.32	5.70	8.97	12.9	22.3	33.6	49.2
80	2.23	3.39	5.81	9.19	13.2	22.5	34.3	50.2
85	2.34	3.58	6.14	9.71	14.0	23.3	36.2	52.8
90	2.48	3.79	6.49	10.2	14.6	24.6	37.9	55.3
95	2.61	4.00	6.81	10.5	15.4	25.8	39.0	58.0
100	2.73	4.19	7.15	11.0	16.2	27.1	40.7	60.5
105	2.85	4.41	7.48	11.6	17.0			
110	2.98	4.62	7.81					
115	3.11							

For items within the shaded region CMG recommends the 13:1 ratio reducer.

Exact reducer ratios

Reducer ratio	Size							
	B	C	D	E	F	G	H	J
5:1	5.05	5.05	5.047	5.047	5.047	5.047	5.047	5.047
13:1	13.984	13.596	13.589	13.589	13.589	13.589	13.589	13.589
20:1	20.466	20.456	20.456	20.456	20.456	20.456	20.456	20.456

Maximum torques [Nm]

Reducer ratio	At speed [r/min]	Size							
		B	C	D	E	F	G	H	J
5:1	100	256	401	632	983	1444	2407	3457	5940
13:1	10	277	468	783	1194	1881	2970	4680	7449
20:1	10	277	468	783	1194	1881	2970	4680	7449

Belt drive selection

Pulley & belt selection process

Knowing the nominal output speed desired, and having determined the gearbox size and ratio from the gearbox selection process (steps 1 to 3, page 3), the matching pulley and belt required can be selected from the following tables. The data provided assumes the use of a 4 pole motor which has an average output speed of 1400 r/min.

1. Locate the tables (on pages 5 to 10) for the gearbox size (B to J).
2. Select the correct table for the ratio determined earlier.
3. From the first column (Nominal output r/min) locate the nominal output speed required.
4. Read across the line for the following details:
 - Pulley ratio
 - Pulley pitch diameter [mm] motor
 - Pulley pitch diameter [mm] gearbox
 - Quantity / Type of belts

Size B

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	6.66	75	500*	1SPZ
12	5.63	71	400	1SPZ
14	4.70	67	315	1SPZ
16	4.44	75	315	1SPZ
18	3.73	67	250	1SPZ
20	3.33	71	250	1SPZ
22	3.12	80	250	1SPZ
24	2.82	71	200	1SPZ
26	2.63	95	250	1SPZ
28	2.39	67	160	1SPZ
30	2.25	71	160	1SPZ
32	2.09	67	140	1SPZ
34	2.00	80	160	1SPZ
36	1.87	67	125	1SPZ
38	1.80	100	180	1SPZ
40	1.68	95	160	1SPZ
42	1.65	85	140	1SPZ
44	1.56	90	140	1SPZ
46	1.49	75	112	1SPZ
50	1.39	90	125	1SPZ
52	1.32	85	112	1SPZ
54	1.27	75	95	1SPZ
56	1.21	132	160	1SPZ
58	1.18	95	112	1SPZ
66	1.11	90	100	1SPZ
13:1				
67	1.56	90	140	1SPZ
69	1.50	100	150	1SPA
70	1.47	85	125	1SPZ
72	1.43	140	200	1SPZ
73	1.40	100	140	1SPZ
74	1.39	90	125	1SPZ
77	1.34	112	150	1SPA
78	1.32	95	125	1SPZ
80	1.28	140	180	1SPZ
82	1.24	90	112	1SPA
85	1.21	132	160	1SPZ
87	1.18	95	112	1SPZ
90	1.14	140	160	1SPZ
92	1.12	125	140	1SPZ
97	1.06	132	140	1SPZ
102	1.00	112	112	1SPZ
107	1.05	118	112	1SPZ
110	1.06	112	106	1SPZ
115	1.11	125	112	1SPZ

Size B

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
120	2.40	75	180	2SPZ
127	2.23	112	250	1SPA
130	2.23	112	250	1SPA
135	2.10	95	200	2SPZ
140	2.00	80	160	2SPZ
145	1.97	71	140	3SPZ
150	1.89	95	180	2SPZ
160	1.78	112	200	1SPA
165	1.68	95	160	2SPZ
170	1.67	90	150	2SPA
180	1.60	125	200	1SPA
185	1.55	90	140	2SPZ
190	1.52	118	180	1SPA
195	1.47	95	140	2SPZ
200	1.43	140	200	1SPZ
210	1.35	118	160	1SPA
220	1.28	140	180	1SPZ
230	1.25	112	140	2SPZ
240	1.20	125	150	1SPA
250	1.13	132	150	1SPA
260	1.07	140	150	1SPA
270	1.06	132	140	1SPA
280	1.00	160	160	1SPA
300	1.05	100	95	3SPZ
310	1.07	150	140	1SPA
320	1.12	140	125	2SPZ
330	1.14	160	140	1SPA
340	1.20	180	150	1SPA
360	1.25	140	112	2SPZ
370	1.28	180	140	1SPA
380	1.33	200	150	1SPA
390	1.36	180	132	1SPA
400	1.43	200	140	1SPA

* Pulleys available in 2 groove only.

Belt drive selection

Size C

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.04	71	500*	1SPZ
12	5.63	71	400	1SPZ
13	5.33	75	400	1SPZ
15	4.70	67	315	1SPZ
16	4.43	71	315	1SPZ
18	3.94	80	315	1SPZ
20	3.50	90	315	1SPZ
22	3.12	80	250	1SPZ
24	2.99	67	200	1SPZ
26	2.69	67	180	1SPZ
29	2.40	75	180	1SPZ
33	2.13	75	160	1SPZ
35	2.00	80	160	1SPZ
38	1.88	85	160	1SPZ
40	1.75	80	140	2SPZ
42	1.65	85	140	1SPZ
45	1.56	90	140	1SPZ
47	1.50	100	150	1SPA
50	1.39	90	125	1SPA
52	1.34	67	90	2SPZ
54	1.31	95	125	1SPZ
58	1.19	80	95	2SPZ
62	1.12	85	95	2SPZ
66	1.06	75	80	2SPZ
13:1				
67	1.60	125	200	1SPZ
70	1.51	132	200	1SPZ
72	1.47	95	140	2SPZ
75	1.43	140	200	1SPZ
77	1.36	132	180	1SPZ
80	1.32	106	140	1SPA
82	1.28	140	180	1SPZ
85	1.24	90	112	2SPZ
87	1.21	132	160	1SPZ
90	1.17	95	112	2SPZ
92	1.14	140	160	1SPZ
95	1.11	118	132	1SPA
100	1.06	132	140	1SPA
105	1.00	132	132	1SPA
110	1.05	100	95	2SPZ

Size C

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
115	2.52	125	315	1SPA
120	2.38	132	315	1SPA
125	2.25	140	315	1SPA
130	2.22	180	400	1SPZ
135	2.10	150	315	1SPA
140	2.00	125	250	2SPZ
145	1.97	160	315	1SPA
150	1.89	95	180	3SPZ
160	1.78	140	250	1SPA
165	1.75	180	315	1SPZ
170	1.68	95	160	3SPZ
175	1.60	112	180	2SPZ
180	1.57	200	315	1SPZ
185	1.55	90	140	3SPZ
190	1.51	106	160	2SPA
200	1.43	112	160	2SPA
210	1.36	132	180	2SPZ
220	1.28	140	180	2SPZ
230	1.25	160	200	1SPA
240	1.24	95	112	3SPZ
250	1.14	140	160	2SPZ
260	1.11	190	200	1SPA
270	1.05	125	132	2SPZ
280	1.00	140	140	2SPZ
302	1.06	140	132	2SPA
316	1.11	200	180	1SPA
326	1.27	150	118	2SPA
338	1.19	140	118	2SPA
345	1.21	160	132	2SPA
356	1.25	140	112	3SPZ
362	1.27	150	118	2SPA
367	1.28	180	140	2SPZ
376	1.32	132	100	3SPA
380	1.33	200	150	2SPA
387	1.35	160	118	2SPA
396	1.39	250	180	1SPA
399	1.40	140	100	3SPZ

Size D

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.04	71	500*	1SPZ
12	5.63	71	400	1SPZ
14	4.70	67	315	1SPZ
16	4.44	71	315	1SPZ
18	3.73	67	250	2SPZ
20	3.52	71	250	2SPZ
22	3.12	80	250	1SPZ
24	2.94	85	250	1SPZ
26	2.63	95	250	1SPZ
28	2.50	100	250	1SPZ
30	2.35	85	200	2SPZ
32	2.22	90	200	2SPZ
34	2.11	95	200	1SPA
37	1.89	95	180	2SPZ
38	1.80	100	180	1SPA
40	1.75	80	140	2SPZ
42	1.70	106	180	1SPA
44	1.61	112	180	1SPA
46	1.50	100	150	2SPA
48	1.44	125	180	1SPZ
50	1.42	106	150	2SPA
52	1.36	118	160	1SPA
54	1.32	106	140	2SPA
56	1.25	112	140	2SPA
58	1.20	125	150	1SPA
60	1.18	85	100	3SPZ
62	1.12	118	132	2SPZ
63	1.11	90	100	3SPZ
66	1.07	140	150	1SPA
13:1				
67	1.57	200	315	1SPA
70	1.57	132	200	1SPA
72	1.47	95	140	2SPA
75	1.43	140	200	1SPA
77	1.36	132	180	2SPZ
80	1.32	106	140	2SPZ
82	1.29	140	180	1SPA
85	1.25	160	200	1SPA
87	1.21	132	160	2SPZ
90	1.18	95	112	3SPZ
92	1.14	140	160	2SPZ
95	1.11	180	200	1SPA
99	1.07	150	160	2SPA
100	1.05	95	100	3SPZ
106	1.00	125	125	2SPZ

* Pulleys available in 2 groove only.

Belt drive selection

Size D

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
115	2.50	160	400	1SPA
120	2.39	132	315	2SPZ
125	2.25	140	315	2SPZ
128	2.23	112	250	2SPA
135	2.12	118	250	2SPA
140	2.00	125	250	2SPA
150	1.89	132	250	2SPA
158	1.80	100	180	3SPA
160	1.78	140	250	2SPZ
165	1.75	180	315	1SPA
170	1.68	95	160	4SPZ
175	1.60	112	180	3SPZ
180	1.57	200	315	1SPA
190	1.51	132	200	2SPA
200	1.42	140	200	2SPA
204	1.40	100	180	4SPZ
210	1.36	132	180	2SPA
220	1.28	140	180	2SPA
230	1.25	160	200	2SPA
240	1.20	150	180	2SPA
250	1.14	140	160	2SPA
270	1.06	150	160	2SPA
285	1.00	140	140	2SPA
300	1.05	132	125	3SPA
320	1.11	200	180	2SPA
330	1.14	160	140	3SPZ
340	1.20	180	150	2SPA
355	1.25	200	160	2SPA
370	1.28	180	140	2SPA
380	1.33	200	150	2SPA
390	1.36	180	132	3SPA
400	1.38	250	180	2SPA

Size E

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.04	71	500*	1SPZ
12	5.63	71	400	2SPZ
14	5.00	80	400	1SPZ
16	4.44	90	400	1SPZ
18	4.00	100	400	1SPZ
20	3.50	90	315	2SPZ
22	3.15	100	315	1SPZ
24	2.99	67	200	3SPZ
26	2.66	75	200	2SPZ
28	2.50	100	250	2SPZ
29	2.40	75	180	3SPZ
31	2.25	80	180	3SPZ
34	2.09	67	140	4SPZ
35	2.00	80	160	1SPA
37	1.88	85	160	2SPZ
40	1.75	80	140	3SPZ
42	1.68	95	160	2SPZ
44	1.60	125	200	2SPZ
46	1.51	132	200	1SPA
48	1.44	125	180	2SPZ
50	1.40	100	140	2SPA
52	1.36	132	180	2SPZ
54	1.28	140	180	2SPZ
56	1.25	100	125	3SPZ
58	1.20	150	180	1SPA
60	1.18	106	125	2SPA
62	1.14	140	160	2SPZ
63	1.11	90	100	4SPZ
66	1.05	118	125	2SPA
13:1				
70	1.51	132	200	2SPZ
74	1.44	125	180	2SPA
76	1.39	180	250	1SPA
78	1.35	118	160	3SPZ
80	1.32	100	132	3SPA
82	1.28	140	180	2SPA
85	1.24	90	112	5SPZ
87	1.21	132	160	2SPA
90	1.18	95	112	4SPA
93	1.14	140	160	2SPA
95	1.12	125	140	3SPZ
100	1.06	132	140	3SPZ
106	1.00	125	125	3SPZ

Size E

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
110	2.66	150	400	2SPA
115	2.50	160	400	2SPA
120	2.39	132	315	3SPA
125	2.25	140	315	3SPZ
130	2.22	180	400	2SPA
135	2.10	150	315	2SPA
142	2.00	125	250	3SPA
150	1.89	132	250	3SPA
155	1.85	170	315	2SPA
160	1.78	140	250	3SPA
165	1.75	180	315	2SPA
170	1.66	190	315	2SPB
173	1.65	170	280	2SPA
180	1.60	125	200	3SPA
190	1.51	132	200	3SPA
200	1.43	140	200	3SPA
210	1.36	132	180	3SPA
220	1.28	140	180	3SPA
230	1.25	200	250	2SPA
240	1.18	160	190	2SPB
250	1.14	140	160	3SPA
260	1.11	180	200	2SPA
270	1.05	212	224	2SPB
285	1.00	200	200	2SPA
300	1.05	236	224	2SPB
304	1.07	160	150	3SPA
320	1.11	250	224	2SPB
330	1.14	160	140	2SPZ
340	1.20	180	150	3SPA
356	1.25	250	200	2SPA
370	1.31	236	180	2SPB
380	1.33	200	150	3SPA
390	1.36	180	132	4SPA
400	1.40	280	200	2SPB

* Pulleys available in 2 groove only.

Belt drive selection

Size F

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.04	71	500	2SPZ
12	5.97	67	400	2SPZ
14	5.00	100	500*	1SPA
16	4.20	75	315	2SPZ
17	3.94	80	315	2SPZ
18	3.77	106	400	1SPA
20	3.57	112	400	1SPA
22	3.20	125	400	1SPA
24	2.86	140	400	1SPA
26	2.67	118	315	2SPZ
28	2.50	160	400	1SPZ
30	2.35	85	200	3SPZ
33	2.12	85	180	3SPZ
35	2.00	125	250	2SPZ
37	1.89	95	180	3SPZ
40	1.75	180	315	1SPA
42	1.68	95	160	3SPA
44	1.60	125	200	2SPA
45	1.57	200	315	1SPA
48	1.44	125	180	2SPA
50	1.40	100	140	3SPA
52	1.36	118	160	3SPZ
54	1.28	140	180	2SPZ
56	1.25	100	125	3SPZ
58	1.20	125	150	3SPA
60	1.18	106	125	2SPA
62	1.14	140	160	2SPZ
63	1.11	90	100	4SPZ
66	1.05	118	125	2SPA
13:1				
67	1.57	200	315	2SPZ
70	1.51	132	200	3SPZ
72	1.47	160	236	2SPB
74	1.43	140	200	2SPB
76	1.39	180	250	2SPA
78	1.36	118	160	3SPA
79	1.33	150	200	2SPA
82	1.28	140	180	2SPB
85	1.24	150	180	2SPB
87	1.21	132	160	3SPA
90	1.18	132	150	3SPA
93	1.14	140	160	3SPA
95	1.12	125	140	4SPA
100	1.06	132	140	3SPA
106	1.00	125	125	4SPA

Size F

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
110	2.63	190	500	2SPB
115	2.50	200	500	2SPA
120	2.39	132	315	4SPA
125	2.25	140	315	3SPA
135	2.10	190	400	2SPB
145	2.00	200	400	2SPA
150	1.88	212	400	2SPB
155	1.85	170	315	3SPA
160	1.78	224	400	2SPA
165	1.75	180	315	2SPB
170	1.67	212	355	2SPB
180	1.58	224	355	2SPB
185	1.55	180	280	2SPB
190	1.50	236	355	2SPB
200	1.43	140	200	4SPA
210	1.36	132	180	5SPA
215	1.32	160	212	3SPB
220	1.28	140	180	4SPA
230	2.25	224	280	2SPB
240	1.18	236	280	2SPB
250	1.14	140	160	4SPB
260	1.11	180	200	2SPA
270	1.05	212	224	2SPB
285	1.00	200	200	3SPA
300	1.05	236	224	2SPB
320	1.11	250	224	2SPB
340	1.18	280	236	2SPB
360	1.25	250	200	3SPA
370	1.31	250	190	3SPB
380	1.33	315	236	2SPB
390	1.39	236	170	3SPB
400	1.40	315	224	2SPB

Size G

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.04	71	500	3SPZ
12	5.94	106	630	2SPA
14	5.04	125	630*	1SPA
16	4.44	90	400	3SPZ
17	4.00	100	400	2SPA
20	3.57	112	400	2SPZ
22	3.60	125	400	2SPZ
24	2.86	140	400	2SPZ
26	2.66	118	315	2SPA
28	2.50	160	400	2SPZ
30	2.35	85	200	5SPZ
32	2.23	112	250	3SPZ
34	2.10	150	315	2SPA
37	1.89	132	250	3SPZ
40	1.75	180	315	2SPZ
42	1.66	150	250	2SPA
46	1.52	118	180	4SPZ
50	1.39	180	250	2SPA
55	1.28	125	160	4SPA
58	1.21	132	160	4SPA
62	1.13	132	150	4SPA
66	1.07	150	160	3SPA
13:1				
67	1.57	200	315	2SPA
70	1.51	132	200	4SPA
72	1.47	170	250	3SPA
74	1.40	224	315	2SPA
77	1.36	132	180	5SPA
80	1.31	180	236	3SPB
82	1.28	140	180	4SPA
85	1.25	200	250	2SPB
87	1.21	132	160	5SPA
90	1.17	190	224	3SPB
93	1.14	140	160	5SPA
95	1.11	180	200	3SPA
100	1.05	236	250	2SPB

* Pulleys available in 2 groove only.

Belt drive selection

Size G

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
107	2.66	236	630	2SPB
113	2.52	250	630	2SPB
114	2.50	200	500	3SPA
120	2.36	212	500	3SPB
125	2.25	280	630	2SPA
130	2.22	180	400	4SPA
135	2.10	190	400	3SPB
143	2.00	250	500	2SPB
145	1.98	180	355	4SPB
150	1.89	212	400	3SPB
155	1.87	190	355	3SPB
160	1.78	280	500	2SPB
165	1.69	236	400	3SPB
170	1.67	212	355	3SPB
175	1.60	250	400	3SPB
180	1.57	200	315	3SPB
185	1.50	236	355	3SPB
190	1.48	212	315	3SPB
195	1.43	280	400	2SPB
200	1.40	224	315	3SPB
210	1.33	236	315	3SPB
220	1.27	315	400	2SPB
230	1.25	224	280	3SPB
240	1.18	236	280	3SPB
250	1.13	315	355	2SPB
260	1.12	224	250	3SPB
270	1.06	236	250	3SPB
285	1.00	315	315	2SPB
302	1.05	250	236	3SPB
319	1.12	280	250	3SPB
321	1.13	355	315	2SPB
338	1.19	280	236	2SPB
354	1.24	236	190	4SPB
359	1.26	315	250	3SPB
374	1.31	236	180	5SPB
381	1.33	315	236	3SPB
396	1.38	236	170	5SPB
401	1.40	315	224	4SPB

Size H

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.00	90	630	3SPZ
12	5.88	85	500	3SPZ
14	5.04	125	630	2SPZ
16	4.44	90	400	4SPZ
18	4.00	100	400	3SPA
20	3.57	140	500	2SPA
22	3.20	125	400	3SPZ
24	2.86	140	400	2SPA
26	2.66	150	400	2SPA
29	2.38	132	315	3SPA
13	2.10	150	315	2SPB
36	1.97	160	315	2SPB
38	1.85	170	315	2SPB
39	1.78	140	250	3SPB
42	1.66	150	250	3SPA
44	1.57	200	315	2SPA
46	1.51	132	200	4SPA
50	1.39	180	250	3SPB
53	1.31	190	250	3SPB
59	1.18	200	236	3SPB
62	1.12	160	180	4SPA
66	1.06	236	250	2SPB
13:1				
67	1.57	200	315	3SPA
68	1.55	180	280	3SPB
71	1.50	236	355	2SPB
72	1.47	170	250	4SPB
75	1.40	224	315	3SPA
76	1.39	180	250	4SPA
79	1.33	236	315	3SPB
83	1.27	280	355	2SPB
85	1.24	180	224	4SPB
89	1.19	236	280	3SPB
90	1.18	190	224	4SPB
95	1.12	250	280	3SPA
100	1.06	200	212	3SPB

Size H

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
101	2.18	224	630	3SPA
106	2.66	236	630	3SPB
113	2.52	250	630	3SPA
121	2.36	212	500	3SPB
126	2.25	280	630	2SPB
135	2.10	190	400	4SPB
142	2.00	315	630	2SPB
149	1.90	236	450	3SPB
151	1.88	212	400	4SPB
159	1.78	224	400	3SPC
163	1.75	180	315	5SPB
168	1.69	236	400	3SPB
172	1.66	190	315	5SPB
178	1.60	250	400	3SPB
181	1.57	200	315	5SPA
189	1.50	236	355	4SPB
192	1.48	212	315	4SPB
200	1.43	280	400	3SPB
213	1.33	236	315	4SPB
216	1.32	212	280	4SPB
225	1.27	280	355	3SPB
229	1.25	224	280	4SPB
242	1.18	212	250	4SPC
253	1.12	315	355	3SPB
256	1.72	212	366	5SPB
270	1.05	224	236	4SPC
285	1.00	280	280	3SPC
300	1.05	236	224	4SPC
318	1.11	250	224	4SPB
321	1.12	315	280	3SPB
338	1.18	280	236	4SPB
342	1.20	300	250	3SPC
256	1.25	280	224	4SPB
362	1.27	355	280	3SPB
375	1.31	250	190	5SPB
382	1.34	375	280	3SPC
396	1.39	250	180	6SPB
401	1.41	315	224	4SPB

Belt drive selection

Size J

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
20:1				
10	7.00	90	630	4SPZ
12	5.88	85	500	5SPZ
14	5.00	100	500	4SPZ
16	4.50	140	630	3SPZ
18	3.90	160	630	2SPA
20	3.57	140	500	4SPZ
22	3.20	125	400	4SPA
24	2.86	140	400	3SPA
26	2.66	150	400	3SPA
29	2.38	132	315	4SPA
30	2.35	170	400	3SPB
34	2.10	150	315	4SPA
37	1.88	212	400	2SPB
40	1.75	180	315	3SPB
42	1.67	212	355	2SPC
46	1.50	236	355	2SPB
48	1.48	212	315	2SPC
50	1.40	224	315	3SPB
54	1.31	190	250	4SPB
59	1.18	200	236	3SPB
63	1.11	212	236	3SPB
66	1.06	212	224	3SPC
13:1				
67	1.57	200	315	3SPC
68	1.56	180	280	4SPB
71	1.48	212	315	3SPC
72	1.47	190	280	4SPB
75	1.41	224	315	3SPC
76	1.39	180	250	5SPB
80	1.31	190	250	5SPB
83	1.26	315	400	2SPC
85	1.25	200	250	4SPC
89	1.19	236	280	3SPC
90	1.18	212	250	4SPB
94	1.12	250	280	3SPC
100	1.06	212	224	4SPC

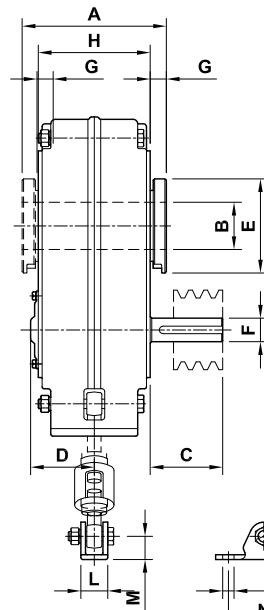
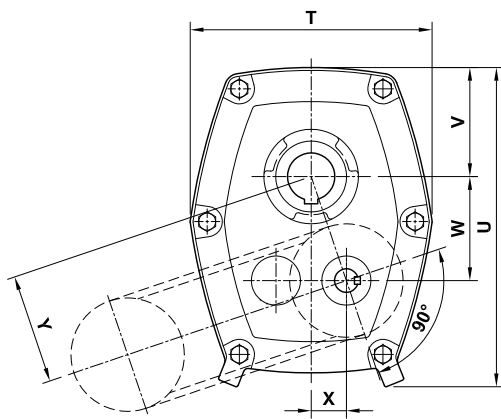
Size J

Nominal output speed [r/min]	Pulley ratio	Pulley pitch Ø		Number / type of belts
		Motor [mm]	SMR [mm]	
5:1				
107	2.66	236	630	4SPB
115	2.52	250	630	4SPB
121	2.35	212	500	5SPB
128	2.23	224	500	5SPB
134	2.11	236	500	5SPB
142	2.00	250	500	4SPC
149	1.90	250	475	4SPC
150	1.89	280	530	4SPC
153	1.87	300	560	3SPC
159	1.79	265	475	4SPC
168	1.69	280	475	4SPC
171	1.66	300	500	3SPC
177	1.60	265	425	4SPC
180	1.59	315	500	4SPB
189	1.50	315	475	3SPC
191	1.49	335	500	3SPC
200	1.42	250	355	5SPC
202	1.40	355	500	4SPB
211	1.35	315	425	4SPC
215	1.32	400	530	3SPC
228	1.25	300	375	4SPC
237	1.20	375	450	3SPC
241	1.18	300	355	4SPC
252	1.13	265	300	5SPC
255	1.11	335	375	4SPC
266	1.07	280	300	5SPC
269	1.06	335	355	4SPC
285	1.00	355	355	4SPC
299	1.05	315	300	4SPC
302	1.06	355	335	4SPC
306	1.07	300	280	4SPC
319	1.11	375	335	3SPC
337	1.18	355	300	4SPC
340	1.19	400	335	3SPC
356	1.25	375	300	4SPC
362	1.27	440	315	3SPC
382	1.33	500	375	3SPC
400	1.41	500	355	4SPC

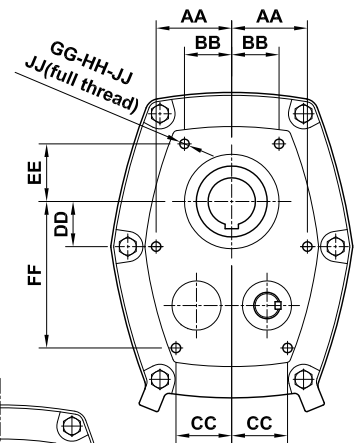
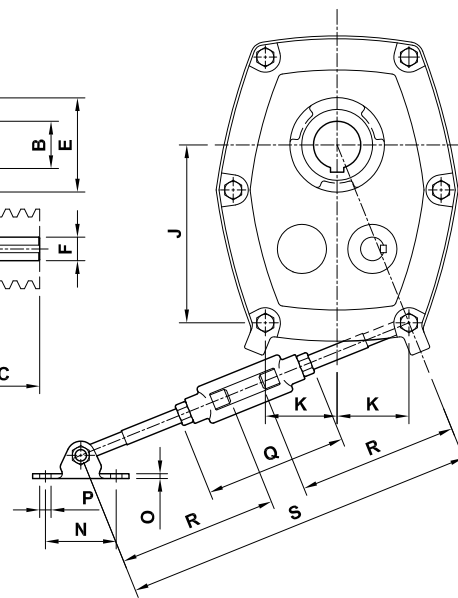
Dimensional drawings

Shaft mounted SMR®

Flange mounted SMR®



Torque arm



SMR dimensions [mm]

Size	AA	BB	CC	DD	EE	FF	GG	HH	JJ	A	B	C	E	F	G	H	J	T	U	V	W	X	Y
B	53	34	--	33	41	--	4	M8	15	134	30	63	80	19	15	104	131	186	241	81	75	25	79
C	--	40	44	40	52	132	4	M10	15	142	40	72	90	22	17	108	156	218	282	96	90	31	95
D	--	50	59	48	61	155	4	M12	17	152	50	77	100	25	17	118	88	258	338	117	110	37	116
E	90	57	57	61	62	188	6	M12	18	170	55	85	115	28	20	130	222	278	386	129	125	43	133
F	100	67	76	64	76	197	6	M16	19	189	65	90	130	32	20	149	242	317	419	143	141	50	150
G	115	74	86	74	87	224	6	M16	24	212	75	105	145	42	20	172	277	365	475	162	156	56	166
H	150	81	79	81	122	281	6	M20	29	242	85	116	170	48	26	190	330	434	550	195	189	62	200
J	200	98	--	98	164	330	5	M20	32	257	100	134	200	55	30	197	424	542	700	254	255	75	266

Torque arm dimensions [mm]

Size	D	K	L	M	N	O	P	Q	R	S min	S max
B	59	55	24	20	65	5	10	200	300	600	750
C	65	59	24	20	65	5	10	200	300	600	750
D	68	76	28	24	75	5	12	216	350	700	850
E	76	90	28	24	75	5	12	216	350	700	850
F	87	98	34	30	100	6	16	216	375	750	900
G	110	110	34	30	100	6	16	216	375	750	900
H	115	88	70	50	120	18	16	222	375	750	900
J	119	102	70	50	120	18	16	222	375	750	900

Keyway dimensions [mm]

Output Hub Key	Input Shaft Keyway
8 x 7	6x3.5x50
12 x 8	6x3.5x59
14 x 9	8x4x63
16 x 10	8x4x70
18 x 11	10x5x70
20 x 12	12x5x90
22 x 14	14x5.5x100
28 x 16	16x6x100

SMR weights [kg]

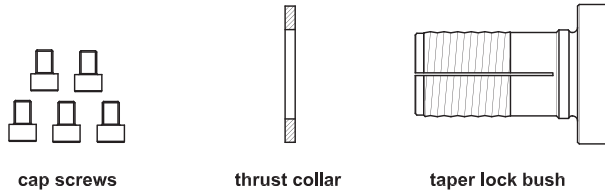
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15	16	16
21	22	22
30	32	32
41	46	46
53	58	58
82	92	92
133	144	144
194	208	208

Options

Taper lock bush

A keyless bush is available made specifically for the CMG-SMR reducer range. Available from sizes C to J they are an excellent option for securing the gearbox on the driven shaft. A pilot bore version is available in each size to cater for any odd shaft requirements.

Taper lock bush components



Bush size options

Reducer size	Bore	Bore type	Bush product code
C	30	Pilot Bore	FEP-TBC-030PS
	35	Finished Bore	FEP-TBC-035S
	40	Finished Bore	FEP-TBC-040S
D	40	Pilot Bore	FEP-TBD-040PS
	45	Finished Bore	FEP-TBD-045S
	50	Finished Bore	FEP-TBD-050S
E	37	Pilot Bore	FEP-TBE-037PS
	45	Finished Bore	FEP-TBE-045S
	50	Finished Bore	FEP-TBE-050S
	55	Finished Bore	FEP-TBE-055S
F	37	Pilot Bore	FEP-TBF-037PS
	60	Finished Bore	FEP-TBF-060S
	65	Finished Bore	FEP-TBF-065S
G	47	Pilot Bore	FEP-TBG-047PS
	60	Finished Bore	FEP-TBG-060S
	65	Finished Bore	FEP-TBG-065S
	70	Finished Bore	FEP-TBG-070S
	75	Finished Bore	FEP-TBG-075S
H	57	Pilot Bore	FEP-TBH-057PS
	70	Finished Bore	FEP-TBH-070S
	75	Finished Bore	FEP-TBH-075S
	80	Finished Bore	FEP-TBH-080S
	85	Finished Bore	FEP-TBH-085S
J	57	Pilot Bore	FEP-TBJ-057PS
	90	Finished Bore	FEP-TBJ-090S
	10	Finished Bore	FEP-TBJ-010S

Torque arms

All CMG-SMR gearboxes in this catalogue are available with a torque arm. The primary purpose of the torque arm is to stop the gearbox from rotating on the shaft of the given application. The torque arms supplied for the CMG-SMR gearboxes are a turnbuckle type which can be used for tensioning of the drive belts. Please refer to the following table for the torque arm part number.

Backstops

All CMG-SMR gearboxes in this catalogue are available with the option of a backstop (anti roll back bearing). Once fitted to the gearbox this allows the units to only operate in one direction. Please note direction of rotation must be specified at the time of order. Please refer to the table below for the backstop part number.

Reducer size	Complete torque arm kit part number	Complete backstop kit part number
B	FEP-8053-B	FEP-054-B
C	FEP-8053-C	FEP-054-C
D	FEP-8053-D	FEP-054-D
E	FEP-8053-E	FEP-054-E
F	FEP-8053-F	FEP-054-F
G	FEP-8053-G	FEP-054-G
H	FEP-8053-H	FEP-054-H
J	FEP-8053-J	FEP-054-J

Installation & maintenance

Taper lock bush

Before installation

Remove all shaft imperfections and any foreign matter from the driven shaft surface, then use an air drying cleaner on the shaft bush, thrust collar and the SMR bore. Lubricants, anti-seize and corrosion protection products should not be applied to the above cleaned parts.

Step 1 – Coat the bush cap screws lightly with oil, and screw back onto the bush flange, but do not allow them to protrude out the other side of the bush flange.

Step 2 – Slide the thrust collar onto the taper lock bush. (Figure 1)

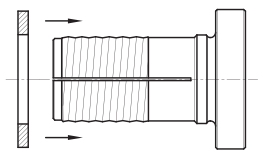


Figure 1

Step 3 – Screw the taper lock bush into the SMR hub until the thrust collar is in tight contact with the SMR hub. (Figure 2)

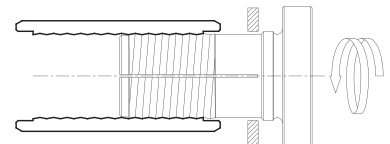


Figure 2

Step 4 – Back off the taper lock bush and allow 1 mm gap with the hub.

Step 5 – Finger tighten the cap screws so the thrust collar is against the SMR hub.

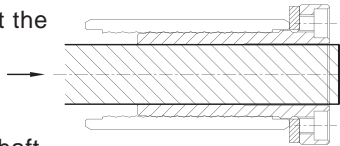
The SMR with bush is now ready for connection with the driven shaft.

Unit installation

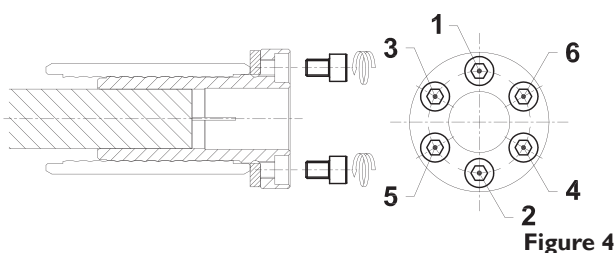
Step 6 – With the SMR taper lock flange facing you, locate the opposite side of the SMR bush on the driven shaft. (Recommended shaft tolerance is h7.)

Slide the SMR unit as close to the driven shaft support bearing as possible.

For minimum engagement the driven shaft must extend beyond the split in the bush barrel. The ideal situation is for the driven shaft to extend beyond the bush flange face **Figure 3** (see figure 3). Refer to the table below for minimum shaft to bush engagement.



Step 7 – Gradually tighten the capscrews to engage the bush system. Using a torque wrench in the appropriate tightening pattern (star pattern see figure 4) tighten each capscrew to the torque values shown in the table below.



Should the driven shaft not extend from the SMR bush, use grease to fill the void to prevent corrosion and fouling.

Removal procedure

Step 1 – Support the SMR unit and loosen all capscrews in the taper lock bush until they are free from contact with the thrust collar.

Step 2 – Using a soft mallet, strike the flange of the taper lock bush this will release the taper engagement with the unit.

Step 3 – Finger tighten at least two capscrews until they contact the thrust collar. This prevents accidental taper engagement between the bush and the hub during removal.

Step 4 – Slide the unit from the shaft, should the unit removal prove difficult due to corrosion or fouling, use a puller on the bush to remove the unit from the shaft.

Capscrew specifications & minimum shaft to bushing engagement

Reducer Size	Capscrews			Minimum shaft engagement [mm]
	Qty	Size	Torque [Nm]	
C	6	M10x14	50	82
D	6	M10x14	55	88
E	6	M12x16	75	95
F	6	M12x16	140	100
G	6	M16x20	250	130
H	6	M16x20	250	146
J	8	M16x20	250	145

Pulleys and torque arms

The performance of the CMG-SMR gearbox depends on proper installation, lubrication and maintenance. Some of the important aspects of belt and torque arm installation are listed below:

1. When installing the pulley on gearbox input shaft ensure it is as close to the reducer as possible. (Figure A) This reduces excessive loads on the input shaft bearings that could cause their premature failure.

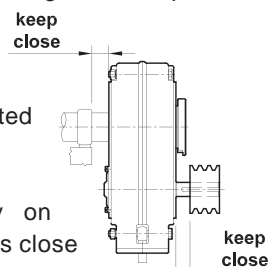


Figure A

2. When installing the motor and vee belt drive, ensure the belt pull is at approximately 90° to the centre line between output and input shafts. (Figure B) This permits tensioning of the vee belt drive with the torque arm, which should preferably be in tension. If the output hub runs anti-clockwise, the torque arm should be positioned to the right. (Figure C)

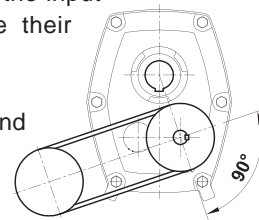


Figure B

3. When installing the torque arm, ensure it is mounted on a rigid support and the torque arm will be at approximately right angles to the centre line through the output shaft and the torque arm case bolt. (Figure D) Make sure there is sufficient thread in the turnbuckle for belt tension adjustment.

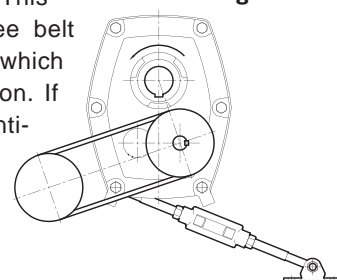


Figure C

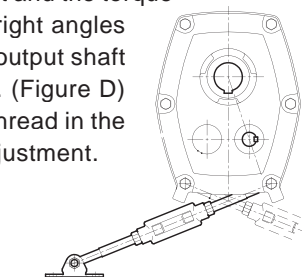
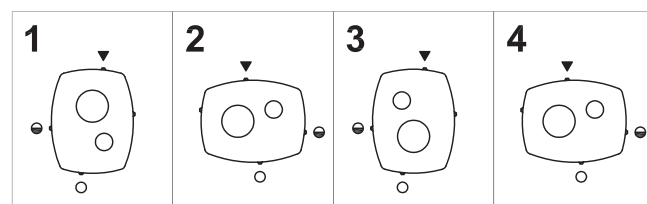


Figure D

Mounting positions



▼ vent/filler plug ● level plug ○ drain plug

Units are fitted with vent/filler, level and drain plugs generally in the position shown.

All CMG-SMR hollow shaft gearboxes are supplied without oil, refer to the lubrication chart (page 14) for correct oil capacity. Using oil as per the lubrication chart, fill to the level plug but ensure gearbox is not running, then drain and refill every six months. Harsh conditions may need regular checks of lubricant quality and volume.

Lubrication

Manufacturers & types

Manufacturer	Product
BP	Energol GR - XP
Castrol	Alpha ZN or SP
Mobil	Mobilgear and SHC
Shell	Omala

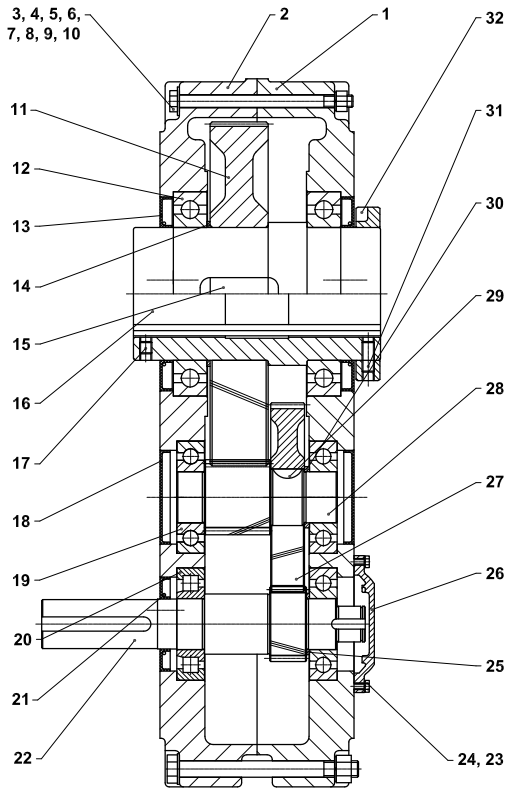
Oil volumes [litres]

Mounting position	Size								
	B	C	D	E	F	G	H	J	
5:1 reducer									
1	0.4	0.6	1.0	1.9	2.6	3.3	4.8	9.3	
2	0.4	0.7	1.4	2.0	2.5	4.1	7.1	16	
3	0.4	0.6	1.2	1.8	2.5	3.3	5.0	12	
4	0.5	0.8	1.5	1.9	2.6	4.6	7.1	16	
13:1 and 20:1 reducers									
1	0.3	0.5	0.8	1.7	2.3	3.0	4.5	7.5	
2	0.5	0.7	1.5	2.0	2.5	4.3	7.0	14	
3	0.4	0.6	1.2	1.8	2.5	3.4	5.0	11	
4	0.5	0.7	1.3	1.6	2.5	3.9	6.8	13	

ISO Viscosity grade

Ambient temp.	Speed [r/min]	Size								
		B	C	D	E	F	G	H	J	
5:1 reducer										
-10 to +5°C	0 to 100	100	100	100	100	100	100	100	100	
	101 to 200	100	100	100	100	100	100	100	100	
	201 to 400	100	100	68	68	68	68	68	68	
6 to 25°C	0 to 100	460	460	460	460	460	460	460	460	
	101 to 200	320	320	320	320	320	320	320	320	
	201 to 400	320	320	220	220	220	220	220	220	
26 to 40°C	0 to 100	800	800	800	800	800	800	800	800	
	101 to 200	680	680	680	680	680	680	680	680	
	201 to 400	680	680	460	460	460	460	460	460	
13:1 and 20:1 reducers										
-10 to +5°C	0 to 20	150	150	150	150	150	150	150	150	
	21 to 50	150	150	150	150	150	150	150	150	
	51 to 120	100	100	100	100	100	100	100	100	
6 to 25°C	0 to 20	680	680	680	680	680	680	680	680	
	21 to 50	680	680	680	460	460	460	460	460	
	51 to 120	460	460	460	320	320	320	320	320	
26 to 40°C	0 to 20	800	800	800	800	800	800	800	800	
	21 to 50	800	800	800	800	800	800	800	800	
	51 to 120	680	680	680	460	460	460	460	460	

Parts list



No.	Description	Qty	Material
1	Right case	1	HT300
2	Left case	1	HT300
3	Hex bolt	2	
4	Hex nut	2	
5	Spring washer	2	
6	Hex bolt	4	
7	Plain washer	6	
8	Hex bolt	8	
9	Plain washer	8	
10	Hex nut	8	
11	2nd reduction gear	2	20CrMnTi
12	Ball bearing	2	
13	Double lip oil seal	1	
14	Spacer	1	Q235-A
15	Plain key	1	45
16	Output hub collar	2	45
17	Screw	2	
18	Oil seal cover	3	
19	Ball bearing	1	
20	Pin bearing	1	
21	Double lip oil seal	1	
22	1st stage shaft pinion	4	20CrMnTi
23	Hex bolt	4	
24	Spring washer	1	
25	Spacer	1	
26	Back stop cover	1	HT200Q235-A
27	1st reduction gear	1	20CrMnTi
28	2nd stage shaft pinion	1	20CrMnTi
29	Woodruff key	1	
30	Spacer	1	Q235-A
31	Screw	3	
32	Output hub collar	1	QT500-7

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